

IN THE CLAIMS:

1.(CURRENTLY AMENDED) A pressure device comprising

a base plate,

a support plate spaced at a prescribed distance from the base plate,

a first slider and a second slider; the first slider and second slider being formed so that

5 the two can move between the base plate and the support plate in a direction orthogonal to the base plate and the support plate and are capable of relative movement with each other in that direction,

a position sensor for detecting the moving position of the second slider,

a first drive means for driving the first slider,

10 a second drive means disposed on the first slider for driving the second slider, and

a central processing unit which controls the first drive means and the second drive means and receives and processes position signals from the position sensor, wherein

a workpiece being pressed which is placed between the second slider and the base plate is pressed until the workpiece reaches a prescribed position by moving the second slider to a
15 prescribed position by use of the second drive means based on position signals from the position sensor, while moving the first slider and the second slider by use of the first drive means by moving the first slider and the second slider to prescribed positions by use of the first drive means and by moving the second slider to a prescribed position by use of the second drive means.

2. (ORIGINAL) A pressure device according to Claim 1, wherein the base plate and support plate are disposed parallel to the horizontal plane and the first slider and the second slider are disposed so that the two can move in a vertical direction.

3. (ORIGINAL) A pressure device according to Claim 1, wherein the first drive means is formed as a crank mechanism and the second drive means as a mechanism comprising a screw pair.

4. (ORIGINAL) A pressure device according to Claim 1, wherein the first drive means and the second drive means are each formed as a mechanism comprising a screw pair.

5. (ORIGINAL) A pressure device according to Claim 4, wherein the screw in the first drive means is formed as a ball screw.

6. (ORIGINAL) A pressure device according to Claim 1, wherein the first slider and the second slider are disposed so that the relationship between the amount of movement, $m1$, of the first slider per unit time and the amount of movement, $m2$, of the second slider per unit time is expressed by $m1 > m2$.

7. (ORIGINAL) A pressure device according to Claim 1, wherein motors in the first drive means and the second drive means are formed as servo motors.

8. (NEW) A method for pressing a work piece precisely, the method comprising the steps of:

providing a base plate having a plane;

providing a first drive means connected to said base plate wherein a work space is provided between said base plate and said first drive means;

providing a first slider provided within said work space and connected to said first drive means by a first linearly displacing means having an axis orthogonal to said plane of said base plate;

providing a second drive means connected to said first slider;

providing a second slider provided within said work space and connected to said second drive means by a second linearly displacing means having an axis orthogonal to said plane of said base plate;

providing a position sensor;

providing a central processing unit;

using said first driving means to actuate said first slider and said second slider to bring the second slider in contact with the work piece;

setting said position sensor to initial stage

using said second driving means to actuate said second slider to start molding the work piece;

sending position from position sensor to said central processing unit; and

controlling said second driving means by said central processing unit to press the work

piece evenly and precisely.

9. (NEW) A method according to claim 8, wherein said first drive means is a crank mechanism and said second drive means is a mechanism comprising a screw pair.

10. (NEW) A method according to claim 8, wherein said first drive means and said second drive means are each a screw pair.

11. (NEW) A method according to claim 10 wherein said screw pairs in said first drive means is a ball screw.

12. (NEW) A method according to claim 8, wherein said first slider and said second slider are actuated so that said first slider moves in greater proportion than said second slider.

13. (NEW) A method according to Claim 8, wherein said first drive means and said second drive means are servo motors.